

15. (Amended) A method of tuning a magneto resistance characteristic of a magnetic system, the system comprising a set of structures including a first structure of layers including at least a first ferromagnetic layer and a second ferromagnetic layer with at least a separation layer of a non-magnetic metallic material therebetween, said first structure having at least said magneto resistance characteristic, the method comprising the steps of:

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- defining a layer of a high-resistive metallic material on said first structure; and
- defining a second structure including at least one magnetic layer on said layer of said high-resistive metallic material, said second structure including at least one magnetic layer or a set of layers for influencing at least one intrinsic magnetic characteristic of said first structure, wherein said magneto resistance characteristic can be tuned by adjusting a thickness of the high-resistive metallic material.

16. (Amended) A magnetic system, the system comprising a set of structures including:

- a first structure of layers including at least a first ferromagnetic layer structure and a second ferromagnetic layer with at least a separation layer of a non-magnetic material therebetween, said first structure having at least a magneto resistance effect;
- a second structure including at least one magnetic layer, said second structure influencing at least one intrinsic magnetic characteristic of said first structure;
- said second structure being separated from said first structure by at least a spacer layer of a high-resistive metallic material and said spacer layer of a high-resistive metallic material furthermore influencing the coupling of said second structure on said first structure